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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/629,581	07/30/2003	Sin-Gu Kang	6192.0143.D1	6203
7590 McGuireWoods LLP Suite 1800 1750 Tysons Boulevard McLean, VA 22102		02/26/2007	EXAMINER CHOW, DOON Y	
			ART UNIT	PAPER NUMBER
			2629	
SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS	02/26/2007	PAPER		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/629,581	KANG, SIN-GU	
	<b>Examiner</b>	<b>Art Unit</b>	
	Dennis-Doon Chow	2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### **Status**

- 1) Responsive to communication(s) filed on 09 February 2007.
- 2a) This action is **FINAL**.                            2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### **Disposition of Claims**

- 4) Claim(s) 23-28 and 31-33 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 23,27 and 32 is/are rejected.
- 7) Claim(s) 24-26,28,31 and 33 is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### **Application Papers**

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### **Priority under 35 U.S.C. § 119**

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### **Attachment(s)**

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)  
 Paper No(s)/Mail Date \_\_\_\_\_.
- 4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) Notice of Informal Patent Application
- 6) Other: \_\_\_\_\_.

## DETAILED ACTION

### ***Double Patenting***

1. Claims 23-28 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-22 of U.S. Patent No. 6,621,547. Although the conflicting claims are not identical, they are not patentably distinct from each other because they claim a similar invention with different wordings.

For example:

Claim 23 of the present claims.	Claims 1 and 4 of the patented claims
23. A module for determining a driving signal timing for a liquid crystal display (LCD) device, comprising: a flexible base substrate; a gate-driving signal input line formed on one side of the base substrate that applies a gate-driving signal to the gate-driving signal input line; a gate-driving IC mounted on the flexible base substrate to be connected to the gate-driving signal input line; and a plurality of gate-driving signal output lines formed on the flexible base substrate that are connected to output terminals of the gate driving IC,	1. A module for determining a driving signal timing for a liquid crystal display (LCD) device, comprising: a flexible base substrate; a gate-driving signal input line formed on one side of the base substrate so that a gate-driving signal is applied to the gate-driving signal input line; a gate-driving IC mounted on the base substrate to be connected to the gate-driving signal input line, the gate driving IC adapted to modify linearly a level of the gate-driving signal inputted to a first gate line through a last gate line of a plurality of gate lines formed on a TFT substrate when allowing the applied gate-driving signal to be diverged in a parallel way so as to input it to the plurality of gate lines, and then, output the linearly modified gate-driving signal through output terminals thereof; and a plurality of gate-driving signal output lines formed on the base substrate in such a manner that the plurality of gate-driving signal output lines are connected to output terminals of the gate driving IC, the plurality of gate-driving signal output lines adapted to allow the gate-driving signal outputted from the output terminals of the gate-driving IC to have a linear level and to be applied to the plurality of gate lines.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 23, 27 and 32 are rejected under 35 U.S.C. 102(e) as being anticipated by Sakaguchi et al. (6476789).

Regarding to claim 23, Sakaguchi discloses a module for determining a driving signal timing for a liquid crystal display (LCD) device, comprising: a flexible base substrate (col. 5, lines 55-59; col. 6, lines 1-15); a gate-driving signal input line formed on one side of the base substrate that applies a gate-driving signal to the gate-driving signal input line (Fig. 1); a gate-driving IC (2, Fig. 1) mounted on the flexible base substrate to be connected to the gate-driving signal input line; and a plurality of gate-driving signal output lines formed on the flexible base substrate that are connected to output terminals of the gate driving IC (Fig. 1).

Regarding to claim 27, Sakaguchi further discloses the flexible base substrate has a signal input line (GCK, Fig. 1) connected to the gate-driving IC and a signal transmitting line separated from the signal input line (GCK, Fig. 1).

Regarding to claim 32, the gate-driving signal outputted from the output terminals of the gate-driving IC inherently includes a linear level.

***Allowable Subject Matter***

4. Claims 24-26, 28, 31 and 33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Response to Arguments***

5. The Terminal Disclaimer filed on February 9, 2007 has not been approved.  
6. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

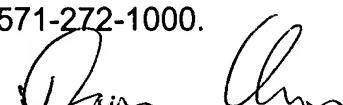
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dennis-Doon Chow whose telephone number is 571-272-7767. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on 571-272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Dennis-Doon Chow  
Primary Examiner  
Art Unit 2629

D. Chow  
November 10, 2006